

Patent Claims

1. Inking roller (10) for an inking unit (16) of an offset printing press (18), the inking roller (10) comprising a number of zones (20) arranged in the direction of the axis of rotation and at least one ink reservoir (32) in the interior of the inking roller (10), wherein the at least one ink reservoir (32) in each of the number of zones (20) is connected to at least one ink exit (12) in the circumferential surface of the inking roller (10),
characterized in
that at least one pumping element (26) for conveying ink from the ink reservoir (32) to the circumferential surface is assigned to each zone in the interior of the inking roller (10).
2. Inking roller (10) according to claim 1,
characterized in
that the pumping element (26) is an electrical pump or a pneumatic pump.
3. Inking roller (10) according to claim 1 or 2,
characterized in
that the ink exit (12) is an opening or a porous piece of material.
4. Inking roller (10) according to claim 3,
characterized in
that the ink exit (12) comprises a perforated plug (34).
5. Inking roller (10) according to one of the preceding claims,
characterized in
that the inking roller (10) comprises an ink duct (22) with a rotary seal (24), wherein the ink duct (22) substantially extends along the axis of rotation of the inking roller (10) into the interior of the inking roller (10) to the at least one ink reservoir (32).
6. Inking roller (10) according to one of the preceding claims,
characterized in
that the pumping element (26) is powered by a rotary electrical connection (28).

7. Inking roller (10) according to one of the preceding claims,

characterized in

that a number of ink exits (12) is present in one zone (20), the ink exits (12) being located in the circumferential direction either in one angular section of the circumference in an accumulative way or distributed in a substantially even manner.

8. Inking roller (10) according to one of the preceding claims,

characterized in

that each pumping element (26) of the number of pumping elements (26) is controllable independently of the other pumping elements (26).

9. Inking unit (16) for an offset printing press (18),

characterized by

at least one inking roller (10) according to one of the preceding claims.

10. Offset printing unit (18),

characterized by

at least one inking unit (16) according to claim 9.